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Service Manual

308D MINI HYD EXCAVATOR

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Heavy Equipment Manuals

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Product: MINI HYD EXCAVATOR
Model: 308D MINI HYD EXCAVATOR GBT
Configuration: 308D Mini Hydraulic Excavator GBT00001-UP (MACHINE) POWERED BY 4M40 Engine

Disassembly and Assembly
4M40 DIESEL ENGINE SHOP MANUAL

Media Number -KENR5078-00 **Publication Date -01/11/2007** **Date Updated -01/12/2014**

KENR50780012

General

SMCS - 7555-012

Information Location

This shop manual is published for the information and guidance of personnel responsible for maintenance of Mitsubishi 4M40 series diesel engine, and includes procedures for adjustment and maintenance services. We earnestly look forward to seeing that this manual is made full use of in order to perform correct services with no wastage.

Disassembly and Assembly information is located under General Service Information.

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Disassembly and Assembly
308D CR Excavator Engine Supplement

Media Number -RENR9740-00 **Publication Date -01/05/2008** **Date Updated -16/05/2008**

i02947850

Aftercooler - Remove and Install

SMCS - 1063-010

Removal Procedure

Start By:

A. Remove the engine hood. Refer to Disassembly and Assembly, "Hood - Remove and Install".

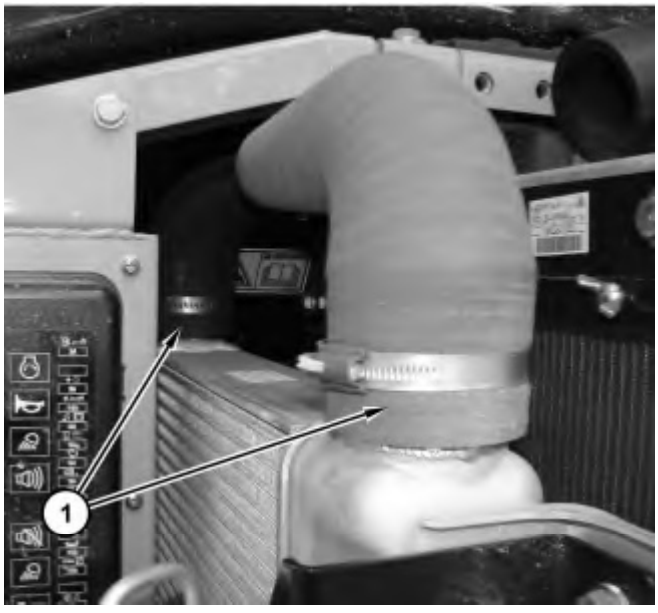

Illustration 1 g01461648

1. Disconnect two hoses (1) .

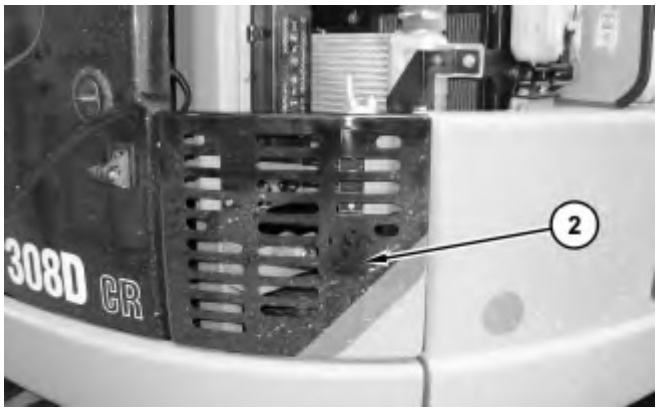

Illustration 2 g01461867

2. Remove panel (2) .

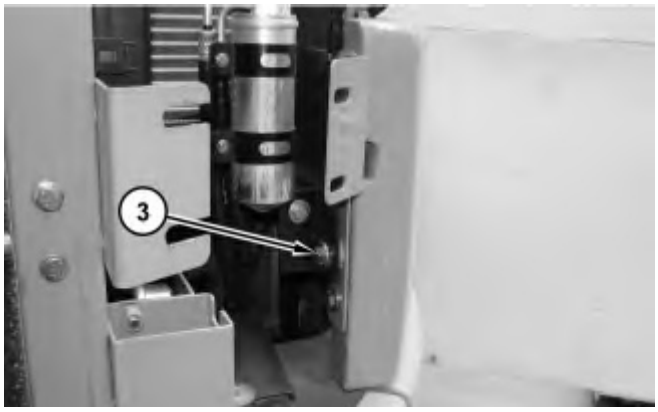

Illustration 3 g01461649

3. Remove bolt (3) .

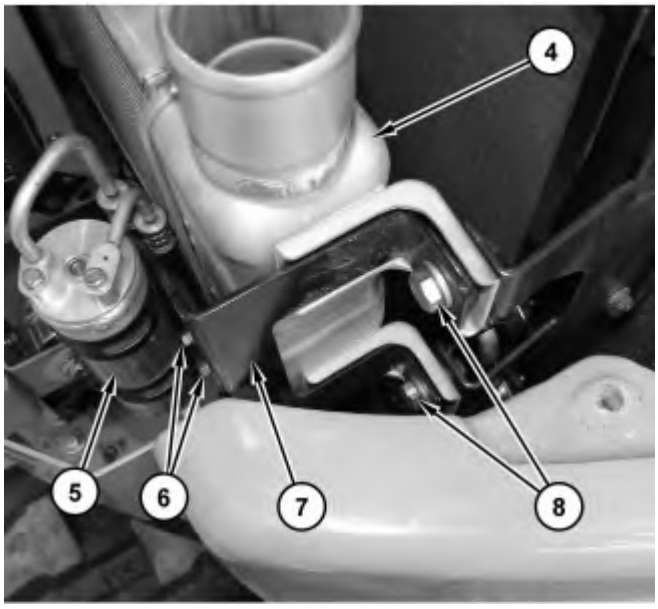

Illustration 4 g01461889

4. Remove bolts (6) and place refrigerant receiver-dryer (5) to the side. Remove bolts (8) and bracket assembly (7). Remove the bolts from the rear of aftercooler (4). Remove aftercooler (4) .

Installation Procedure

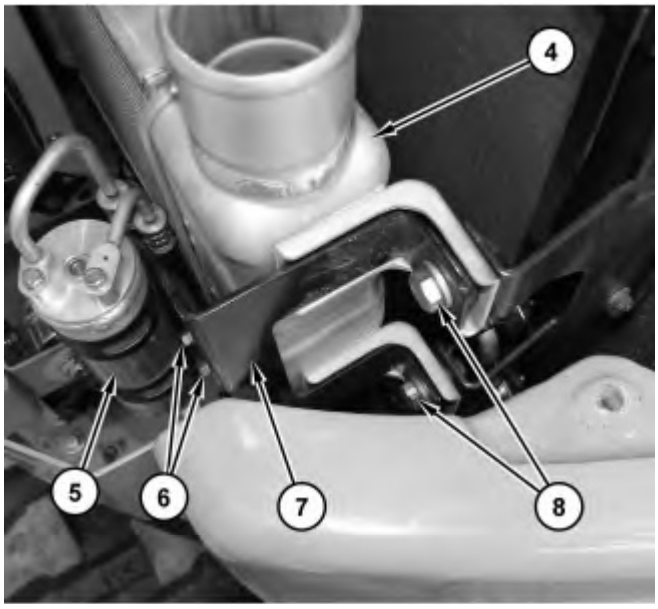

Illustration 5 g01461889

This is the sample of the manual click on the download link for complete manual

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1. Position aftercooler (4). Install bracket assembly (7) and bolts (8). Install the bolts for the rear of aftercooler (4). Position refrigerant receiver-dryer (5) and install bolts (6) .

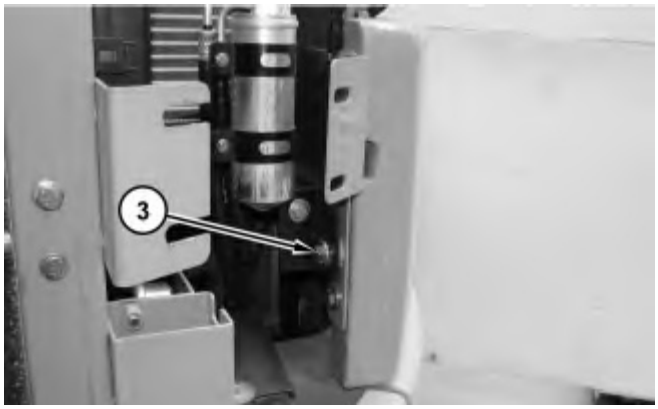

Illustration 6 g01461649

2. Install bolt (3) .

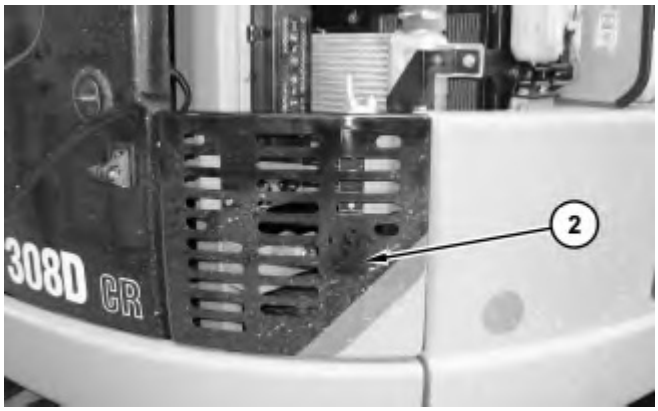

Illustration 7 g01461867

3. Install panel (2) .

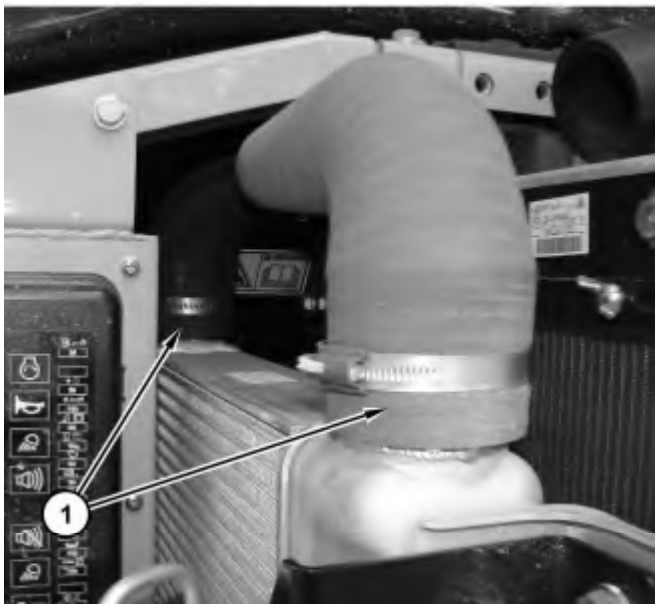

Illustration 8 g01461648

4. Connect two hoses (1) .

End By: Install the engine hood. Refer to Disassembly and Assembly, "Hood - Remove and Install".

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Configuration: 308D Mini Hydraulic Excavator GBT00001-UP (MACHINE) POWERED BY 4M40 Engine

Disassembly and Assembly
308D CR Excavator Engine Supplement

Media Number -RENR9740-00 **Publication Date -01/05/2008** **Date Updated -16/05/2008**

i02942935

Air Cleaner - Remove and Install

SMCS - 1051-010; 1054-010

Removal Procedure

1. Open the engine hood.

Illustration 1 g01458643

2. Remove cover (1) .

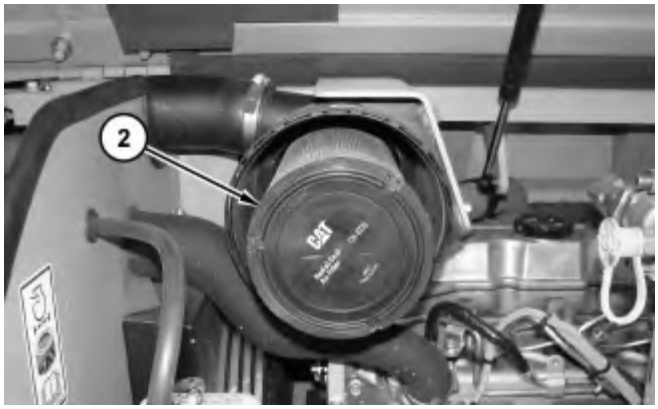

Illustration 2 g01458644

3. Remove primary filter (2) .

Illustration 3 g01458647

4. Remove secondary filter (4). Remove hose (3) .

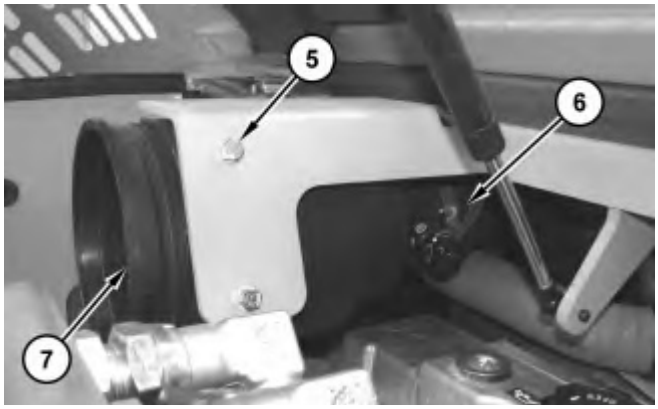

Illustration 4 g01458649

5. Disconnect hose (6). Remove bolts (5) and air cleaner housing (7) .

Installation Procedure

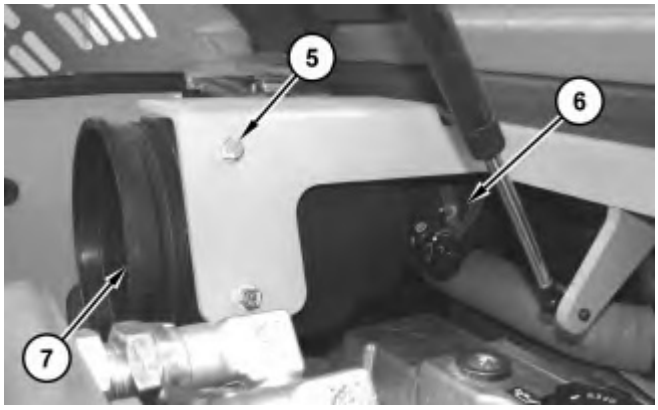

Illustration 5 g01458649

1. Position air cleaner housing (7) and install bolts (5). Connect hose (6) .

Illustration 6 g01458647

2. Install hose (3). Install secondary filter (4) .

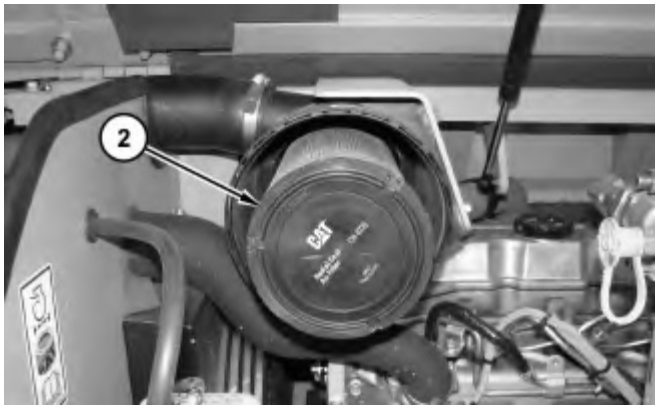

Illustration 7 g01458644

3. Install primary filter (2) .

Illustration 8 g01458643

4. Install cover (1) .
5. Close the engine hood.

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Disassembly and Assembly
308D CR Excavator Engine Supplement

Media Number -RENR9740-00 **Publication Date -01/05/2008** **Date Updated -16/05/2008**

i02952459

Alternator - Install

SMCS - 1405-012

Installation Procedure

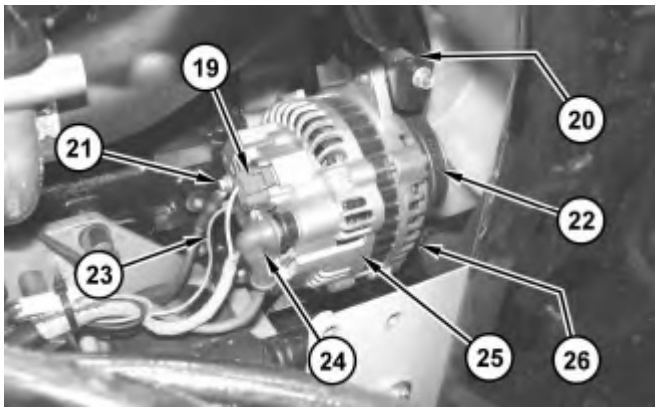

Illustration 1 g01467127

1. Install alternator (25). Install bolts (20) and (26) .
2. Install belts (22) on alternator (25). Refer to Operation and Maintenance Manual, "Belts - Inspect/Adjust/Replace".
3. Connect harness assemblies (19), (21), (23), and (24) .

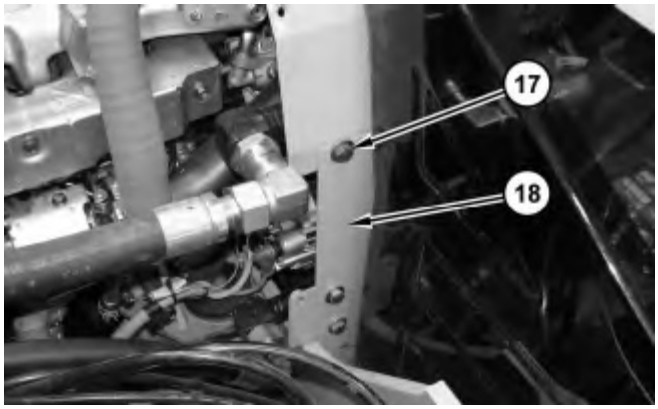

Illustration 2 g01467574

4. Install panel (18) and bolts (17) .

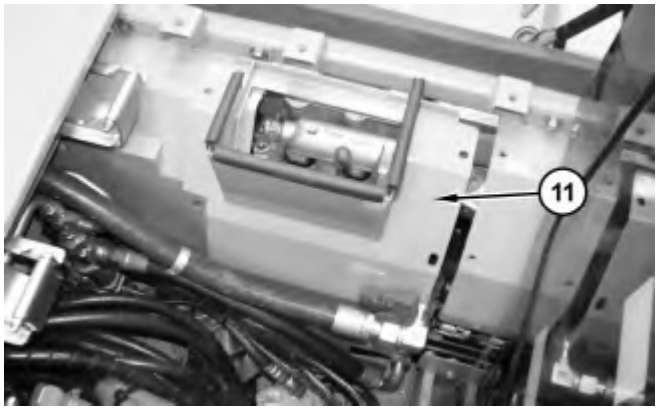

Illustration 3 g01467576

5. Position panel (11) .

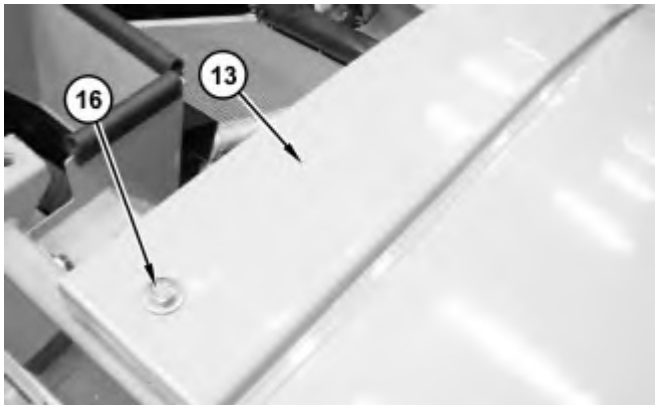

Illustration 4 g01467568

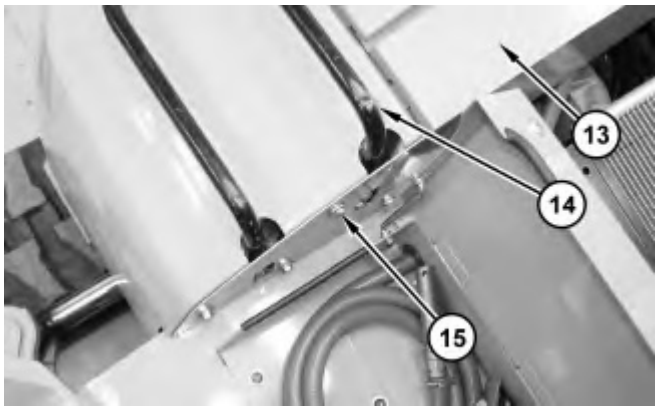

Illustration 5 g01467578

6. Install panel (13) and bolt (16) .
7. Install four bolts (15) in panel (13). Install bolt (14) in panel (13) .

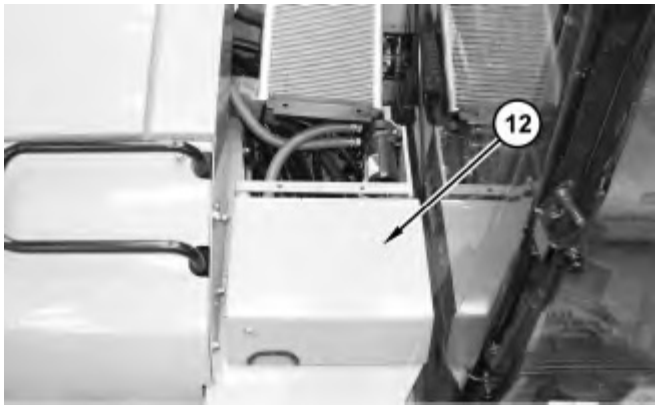

Illustration 6 g01467571

8. Close door (12) .

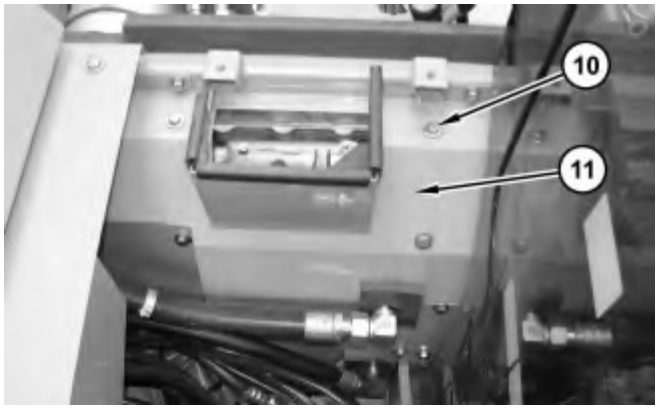

Illustration 7 g01467567

9. Install six bolts (10) in panel (11) .

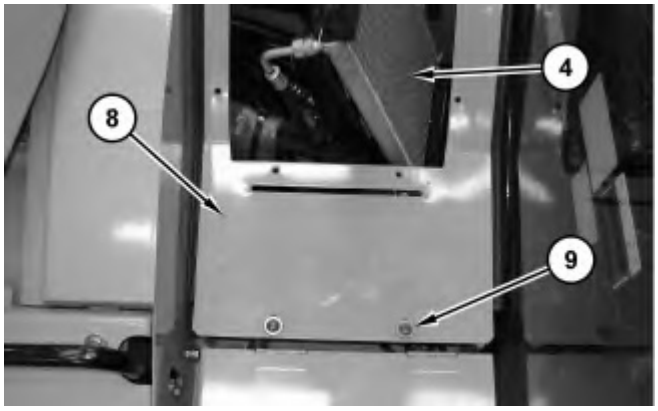

Illustration 8 g01467575

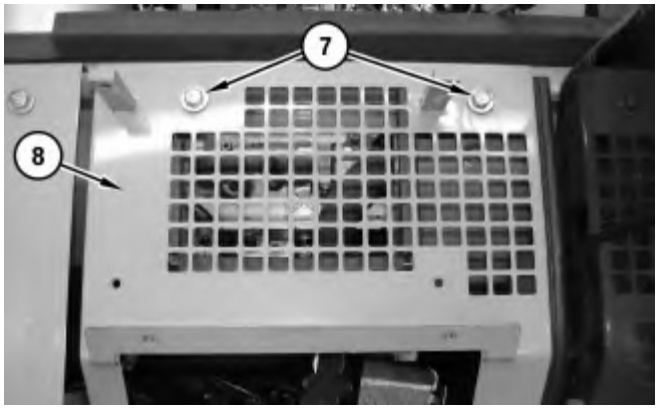

Illustration 9 g01467581

10. Position refrigerant condenser (4), as shown.
11. Install cover (8). Install bolts (9) and (7) .

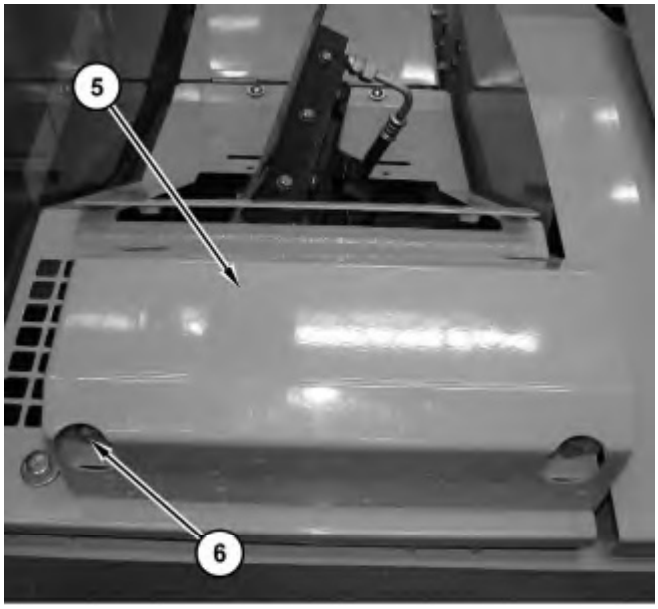

Illustration 10 g01467570

12. Install cover (5) and bolts (6) .

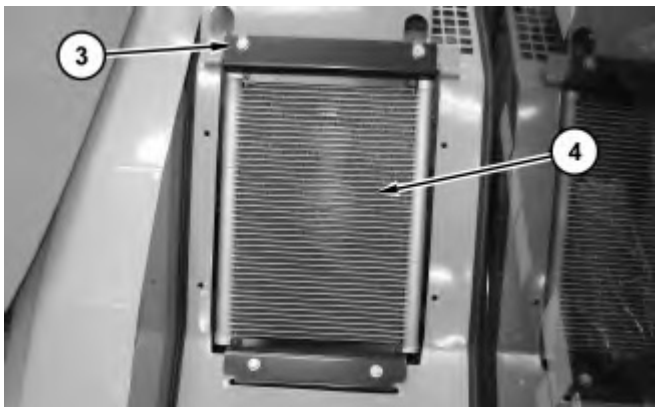

Illustration 11 g01467569

13. Position refrigerant condenser (4), as shown.
14. Install bolts (3) .

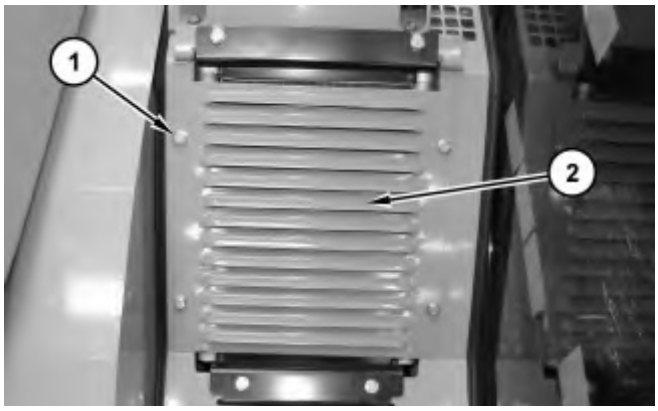

Illustration 12 g01467573

15. Install panel (2) and bolts (1) .
16. Turn the battery disconnect switch to the ON position.

End By: Install the engine hood. Refer to Disassembly and Assembly, "Hood - Remove and Install".

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Disassembly and Assembly
308D CR Excavator Engine Supplement

Media Number -RENR9740-00 **Publication Date -01/05/2008** **Date Updated -16/05/2008**

i02950608

Alternator - Remove

SMCS - 1405-011

Removal Procedure

Start By:

A. Remove the engine hood. Refer to Disassembly and Assembly, "Hood - Remove and Install".

1. Turn the battery disconnect switch to the OFF position.

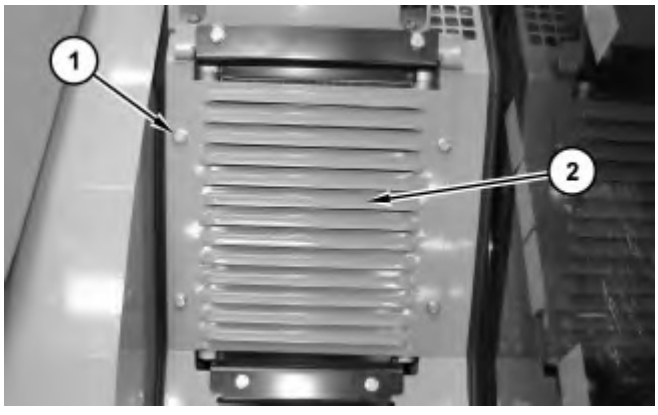

Illustration 1 g01463947

2. Remove bolts (1) and panel (2) .

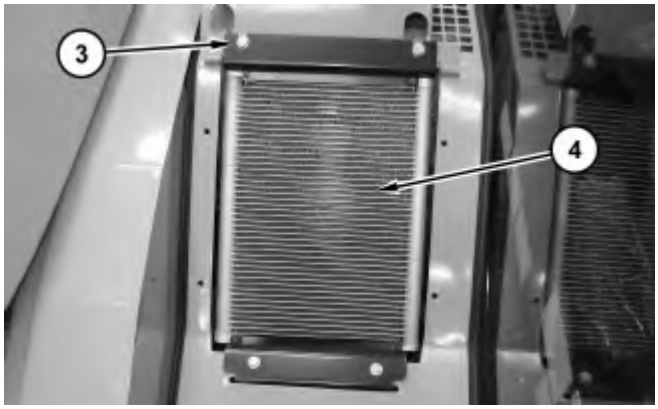

Illustration 2 g01463967

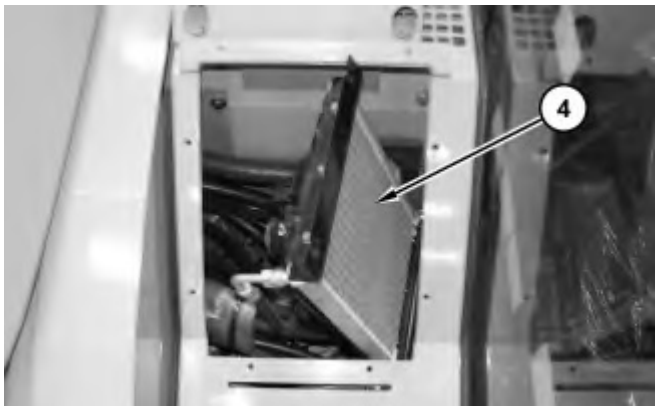

Illustration 3 g01464187

3. Remove bolts (3). Position refrigerant condenser (4), as shown.

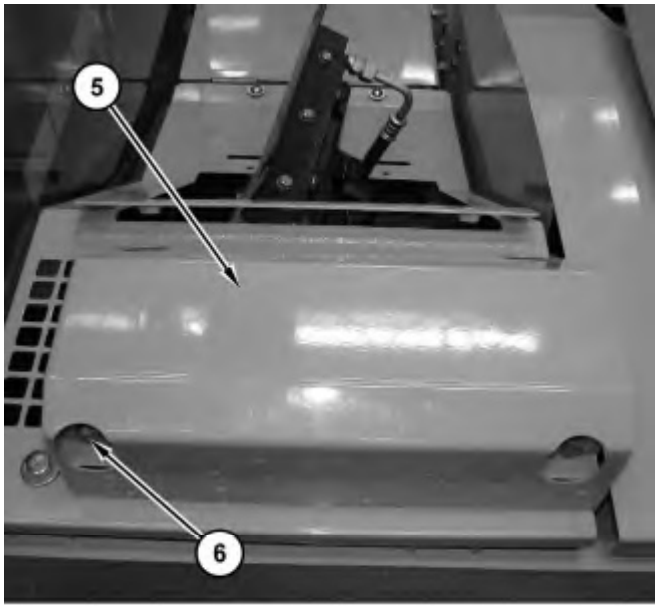

Illustration 4 g01466067

4. Remove bolts (6) and cover (5) .

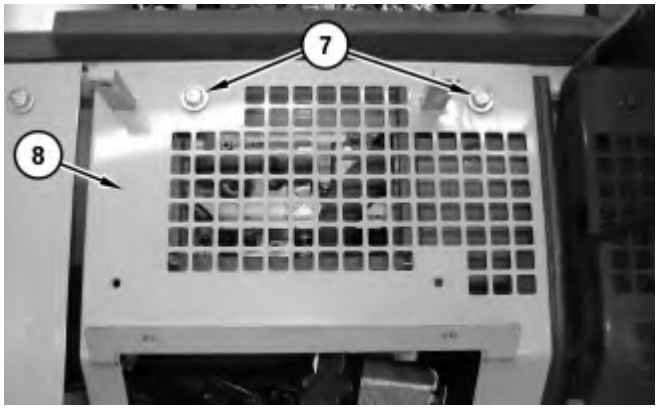

Illustration 5 g01466128

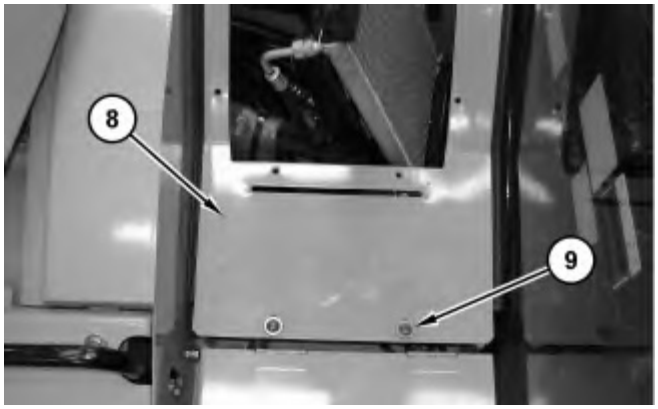

Illustration 6 g01466208

5. Remove bolts (7) and (9). Remove cover (8) .

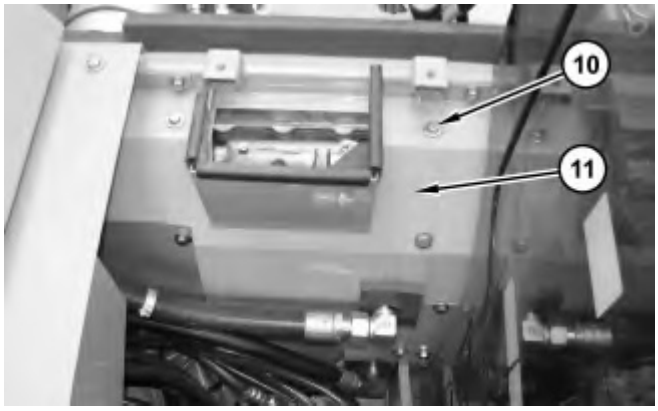

Illustration 7 g01466227

6. Remove six bolts (10) from panel (11) .

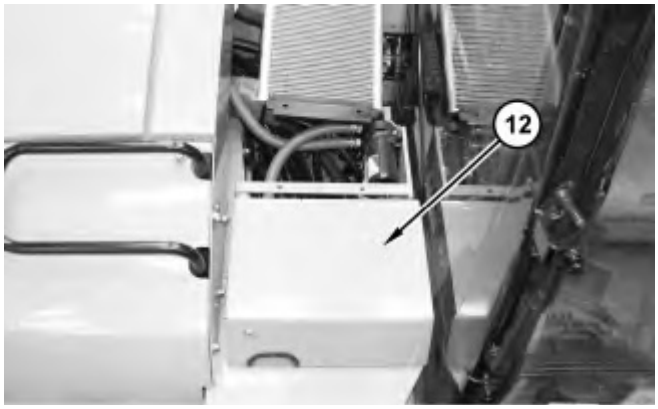

Illustration 8 g01466229

7. Open door (12) .

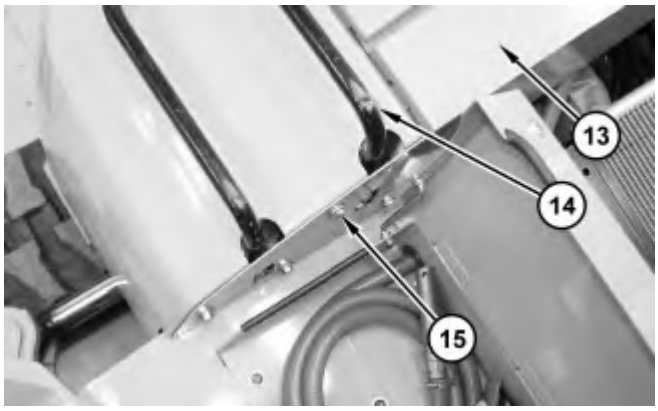

Illustration 9 g01466247

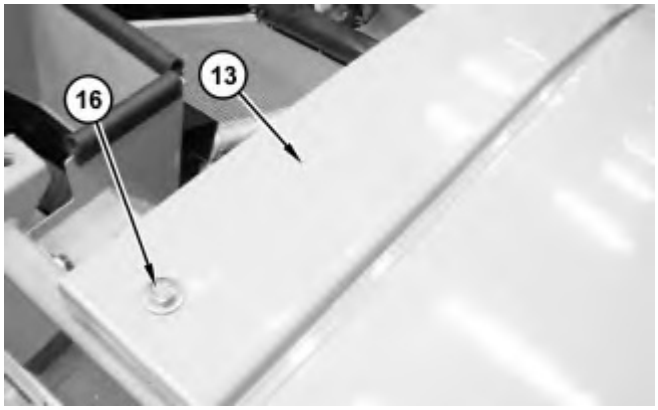

Illustration 10 g01466852

8. Remove bolt (14) from panel (13). Remove four bolts (15) from panel (13) .
9. Remove bolt (16) and panel (13) .

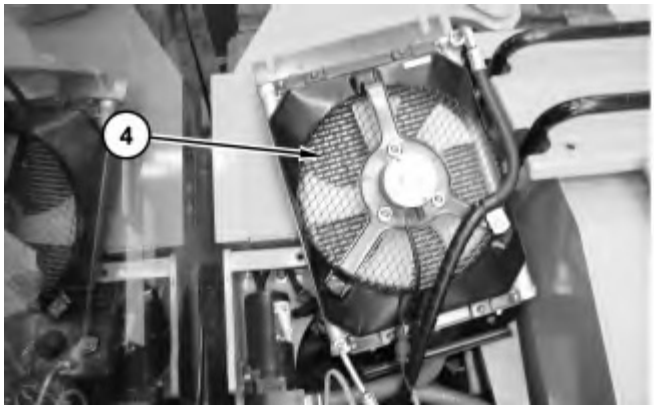

Illustration 11 g01467027

10. Place refrigerant condenser (4) aside, as shown.

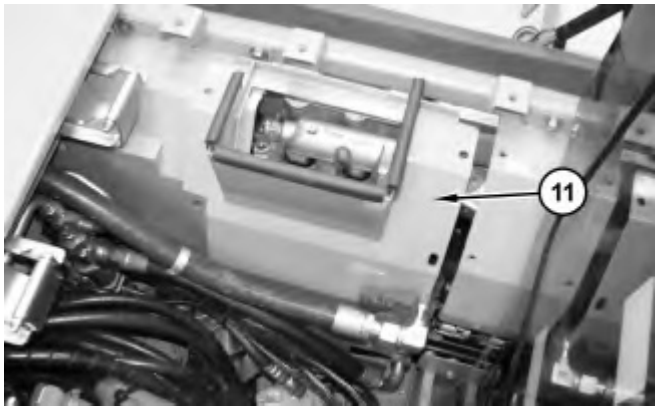

Illustration 12 g01467067

11. Remove panel (11) .

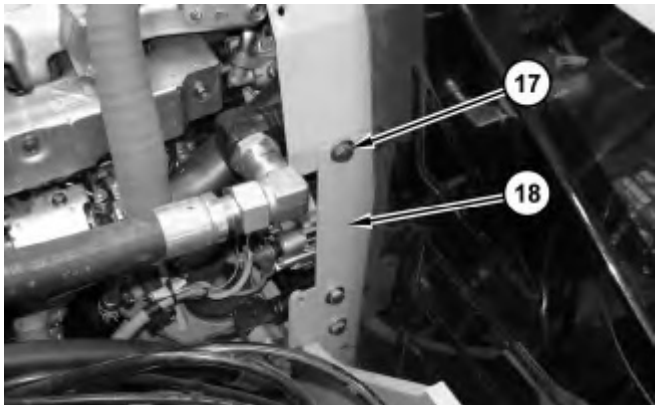

Illustration 13 g01467087

12. Remove bolts (17) and panel (18) .

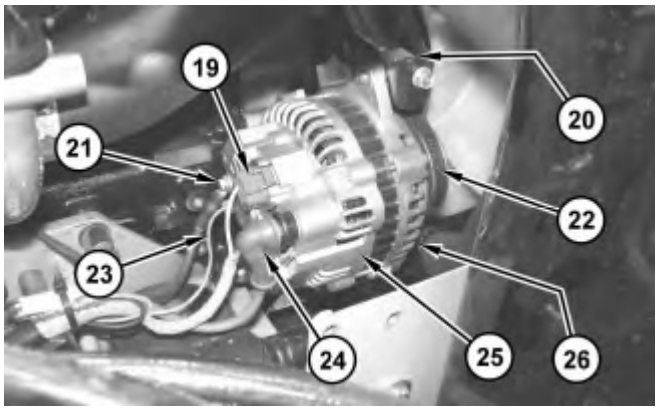

Illustration 14 g01467127

13. Remove belts (22) from alternator (25). Refer to Operation and Maintenance Manual, "Belts - Inspect/Adjust/Replace".

14. Disconnect harness assemblies (19), (21), (23), and (24) .

15. Remove bolts (20) and (26). Remove alternator (25) .

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Disassembly and Assembly
308D CR Excavator Engine Supplement

Media Number -RENR9740-00 **Publication Date -01/05/2008** **Date Updated -16/05/2008**

i02947578

Battery - Remove and Install

SMCS - 1401-010

Removal Procedure

1. Turn the battery disconnect switch to the OFF position.

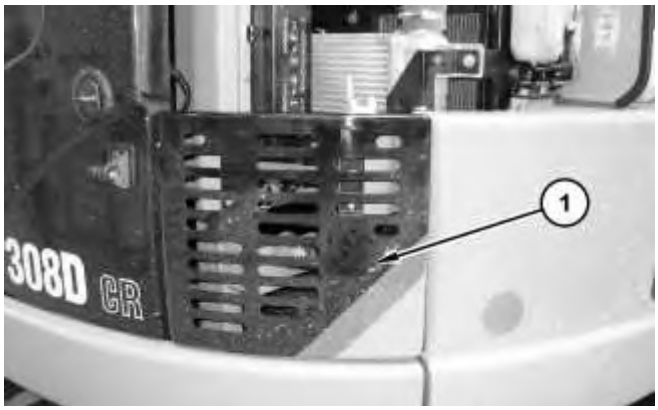

Illustration 1 g01460234

2. Remove panel (1) on the left side of the machine.

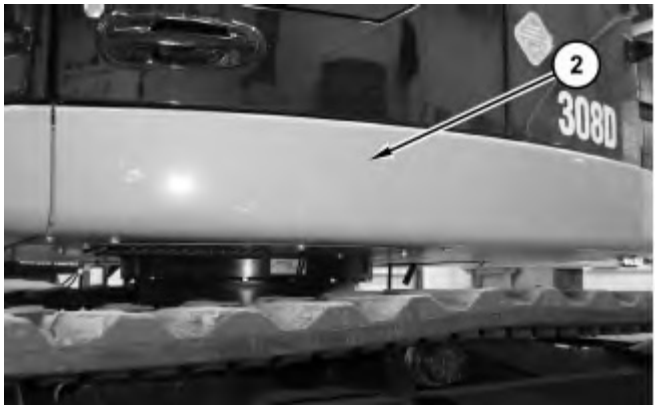

Illustration 2 g01461131

3. Remove guard (2) .

Illustration 3 g01461135

4. Remove nut (3), the washer, and the spacer. Repeat for the other two hold-downs. Remove cover (4) .

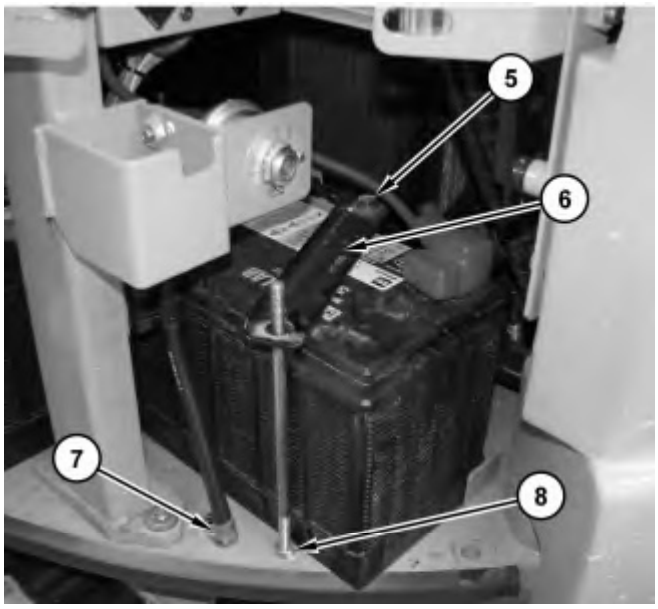

Illustration 4 g01461140

5. Remove bolt (5). Remove hold-down clamp (6). Remove the other hold-down clamp.
6. Disconnect cable assembly (7). Remove stud (8) .

Illustration 5 g01461143

7. Disconnect negative battery cable (9) .
8. Disconnect positive battery cable (10). Remove clamp (11). Remove battery (12) .

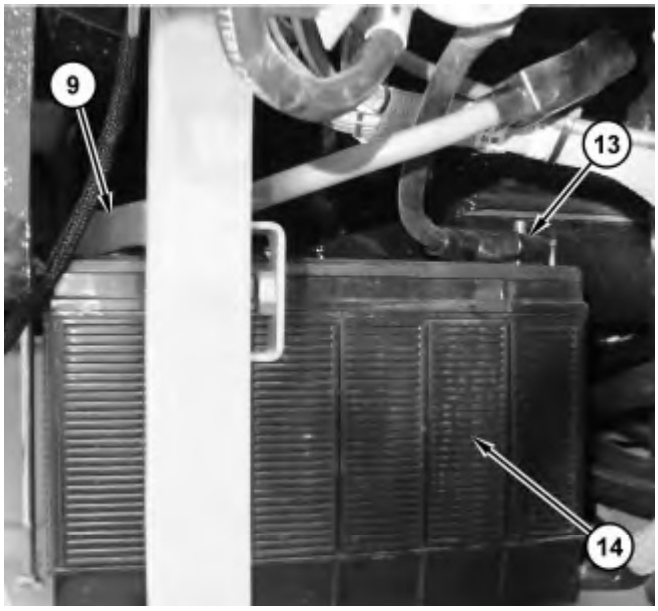

Illustration 6 g01461160

9. Remove battery cable (9). Disconnect battery cable (13). Remove battery (14) .

Installation Procedure

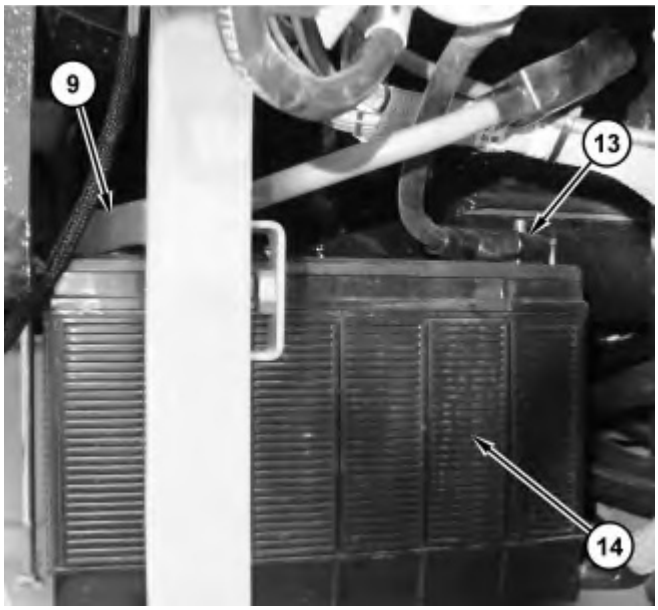

Illustration 7 g01461160

1. Position battery (14). Connect battery cable (13). Connect battery cable (9) .

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